

Substitute for Form PTO-1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

Attorney Docket Number: 3002.EEM  
DApplication  
No.:

EXAMINER NAME:

First Named Inventor: OSAMA M. MUSA

Filing Date:

06 JAN 04

Group Art:

## U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No. <sup>1</sup>	Document Number Number – Kind Code <sup>2</sup> (if known)	Pub. Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document			Pages
		US- 4,225,691	9/30/80	J. V. Crivello			
		US- 2002/0089067	7/11/02	L. N. Crane et al.			
		US- 2002/0143112	10/3/02	R. J. Weinert et al.			
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## FOREIGN PATENT DOCUMENTS

*Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Pub. Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document			Pages
		WO 02/06038 02	24.01.02	J. Kloosterboer et al.			
		WO 02/06038 03	24.01.02	J. Kloosterboer et al.			
		WO 02/28985	11.04.02	J. LUB			
		JP2001329112	11/27/01	N. Kunihiro et al.			

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Sheet 1 of 7

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<b>Group Art Unit</b>	
<b>Examiner Name</b>	
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**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

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	/	<b>LEDWITH, ANTHONY:</b> "Possibilities for promoting cationic polymerization by common sources of free radicals"; <u>Polymer</u> 1978, Vol. 19; October; pgs. 1217-1222.	
	/	<b>SASAKI, HIROSHI et al.:</b> "Photoinitiated Cationic Polymerization of Oxetane Formulated with Oxirane"; <u>Journal of Polymer Science Part A</u> ; Vol. 33; 1995; pgs. 1807-1816.	
	/	<b>SEARLES, SCOTT et al.:</b> "Hydrogen Bonding Ability and Structure of Ethylene Oxides"; <u>This Journal</u> ; 73; 3704; 1951.	
	/	<b>XIANMING, HU et al.:</b> "Phase-Transfer Synthesis of Optically Pure Oxetanes Obtained from 1,2,2-Trisubstituted 1,3-Propanediols"; <u>Synthesis</u> May 1995; pgs. 533-538.	
	/	<b>FUJIWARA, TOMOKO et al.:</b> "Synthesis and Characterization of Novel Oxetane Macromonomers"; <u>Polymer Preprints</u> 2003; 44(1), 785.	
	/	<b>DHAVALIKAR, R. et al.:</b> "Molecular and Structural Analysis of a Triepoxide-Modified Poly(ethylene terephthalate) from Rheological Data"; <u>Journal of Polymer Science: Part A: Polymer Chemistry</u> ; Vol. 41, 958-969 (2003); pgs. 958-969.	
	/	<b>SATOH, TOSHIFUMI et al.:</b> "A Novel Ladder Polymer. Two-Step Polymerization of Oxetanyl Oxirane Leading to a "Fused 15-Crown-4 Polymer" Having a High Li <sup>+</sup> -Binding Ability"; <u>Macromolecules</u> 2003, 36, 1522-1525.	

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<b>Group Art Unit</b>	
<b>Examiner Name</b>	
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	/	<b>CHEN, YU et al.:</b> "Synthesis of Multihydroxyl Branched Polyethers by Cationic Copolymerization of 3,3-Bis(hydroxymethyl)oxetane and 3-Ethyl-3-(hydroxymethyl)oxetane"; <u>Journal of Polymer Science: Part A: Polymer Chemistry</u> , Vol. 40, 1991-2002; 2002 Wiley Periodicals, Inc.	
	/	<b>NISHIMURA, TOMONARI et al.:</b> "Chemoselective isomerization of amide-substituted oxetanes with Lewis acid to give oxazine derivatives or bicyclic amide acetals"; <u>Chem. Commun.</u> , 1998; Pgs. 43-44.	
	/	<b>MIWA, YOSHIYUKI et al.:</b> "Polymerization of Bis-Oxetanes Consisting of Oligo-Ethylene Oxide Chain with Lithium Salts as Initiators"; <u>Polym. J.</u> , Vol 33, No. 8, 2001; Pgs. 568-574.	
	/	<b>ICHIKAWA, EIKO et al.:</b> "Synthesis of Oxetanocin A and Related Unusual Nucleosides with Bis(hydroxymethyl)-branched Sugars"; <u>Synthesis</u> 2002, No. 1, 28 12 2001; Georg Thieme Verlag Stuttgart, NY; Pgs. 1-28.	
	/	<b>MINEGISHI, SHOUJI et al.:</b> "Synthesis of Polyphosphonates Containing Pendant Chloromethyl Groups by the Polyaddition of Bis(oxetanes)s with Phosphonic Dichlorides"; <u>Journal of Polymer Science: Part A: Polymer Chemistry</u> , Vol. 40 3835-3846; 2002 Wiley Periodicals, Inc.	
	/	<b>SASAKI, HIROSHI et al.:</b> "Photoinitiated Cationic Polymerization of Oxetane Formulated with Oxirane"; <u>Journal of Polymer Science: Part A: Polymer Chemistry</u> , Vol. 33, 1807-1816; 1995 John Wiley & Sons, Inc.	
	/	<b>ROSENBAUM, DR. BARRY et al.:</b> "Develop Better Coatings"; <u>OMNOVA Solutions Inc.</u> , Akron, OH; Pgs. 1-5.	

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<b>Group Art Unit</b>	
<b>Examiner Name</b>	
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	✓	<b>SASAKI, HIROSHI</b> : "Application of Oxetane Monomers for UV-Curable Materials"; RadTech 2002; Tech. Conf. Proceedings; Pgs. 64-78.	
	✓	<b>CARTER, WELLS</b> et al.: "NEW OXETANE DERIVATIVE REACTIVE FILUENT FOR CATIONIC UV CURE"; RadTech 2000; Tech. Proceed.; Pgs. 641-649.	
	✓	<b>CRIVELLO, J. V.</b> et al.: "Diaryliodonium Salts as Thermal Initiators of Cationic Polymerization"; Journal of Polymer Science: Polymer Chemistry Ed, Vol. 21, 97-109 (1983); John Wiley & Sons, Inc.	
	✓	<b>LU, YONG-HONG</b> et al.: "Synthesis of Side-Chain Liquid Crystalline Polyoxetanes Containing 4-(Alkanyloxy)phenyl <i>trans</i> -4-Alkylcyclohexanoate Side Groups"; 1995 American Chem. Society; Pgs. 1673-1680.	
	✓	<b>LU, YONG-HONG</b> et al.: "Synthesis of side-chain liquid crystalline polyoxetanes containing 4-dodecanyloxphenyl <i>trans</i> -4-alkylcyclohexanoate side groups"; Polymer Bulletin 32, 551-558 (1994); Springer Verlag.	
	✓	<b>HSU, LI-LING</b> et al.: "Studies on the Synthesis and Properties of Ferroelectric Side Chain Liquid Crystalline Polyoxetanes"; Journal of Polymer Science: Part A: Polymer Chemistry; Vol. 35, 2843-2855; (1997); John Wiley & Sons, Inc.	
	✓	<b>KAWAKAMI, YUSUKE</b> et al.: "Synthesis and Thermal Transition of Side-chain Liquid Crystalline Polyoxetanes Having Laterally Attached Mesogenic Group"; Polymer International; 0959-8103/93; Great Britain.	

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Sheet 4 of 7

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<b>First Named Inventor</b>	OSAMA M. MUSA
<b>Group Art Unit</b>	
<b>Examiner Name</b>	
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	✓	KAWAKAMI, YUSUKE et al.: "Synthesis of Liquid Crystalline Polymers with a Polyoxetane Main Chain"; <u>Macromolecules</u> ; Vol. 24, No. 16, 1991; Pgs. 4531-4537.	
	✓	KAWAKAMI, YUSUKE et al.: "Smectic liquid crystalline polyoxetane with novel mesogenic group"; <u>Polymer Bulletin</u> 25; Springer-Verlag 1991; Pgs. 439-442.	
	✓	CRIVELLO, J.V. et al.: "Photoinitiated Cationic Polymerization With Multifunctional Vinyl Ether Monomers"; <u>Journal of Radiation Curing</u> , January 1983; Pgs. 6-13.	
	✓	ISHIZONE, TAKASHI et al.: "Protection and Polymerization of Functional Monomers. 29. Syntheses of Well-Defined Poly[(4-vinylphenyl)acetic acid], Poly[3-(4-vinylphenyl)propionic acid], and Poly(3-vinylbenzoic acid) by Means of Anionic Living Polymerizations of Protected Monomers Bearing Bicyclic Ortho Ester Moieties"; <u>Macromolecules</u> 1999, 32, 1453-1462.	
	✓	SATO, KAZUYA et al.: "New Reactive Polymer Carrying a Pendant Oxetane Ring"; <u>Macromolecules</u> 1992, 25, 1198-1199; Communications to the Editor.	
	✓	MOUSSA, K. et al.: "Light-Induced Polymerization of New Highly Reactive Acrylic Monomers"; <u>Journal of Polymer Science: Part A: Polymer Chemistry</u> , Vol. 31, 2197-2203 (1993); John Wiley & Sons, Inc.	
	✓	KAWAKAMI, YUSUKE et al.: "Synthesis of Liquid Crystalline Polyoxetanes Bearing Cyanobiphenyl Mesogen and Siloxane-Containing Substituent in the Repeating Unit"; <u>Polymer Journal</u> , Vol. 28, No. 10, pp 845-850 (1996).	

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Sheet 5 of 7

<b>Application Number</b>	65 143
<b>Filing Date</b>	06 JAN 04
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	/	<b>CRIVELLO, J. V.</b> et al.: "Synthesis and Photopolymerization of Silicon-Containing Multifunctional Oxetane Monomers"; <u>J.M.S.-Pure Appl. Chem.</u> , A30(2 & 3), pp.173-187 (1993); Marcel Dekker, Inc.	
	/	<b>CHAPPELOW, C. C.</b> et al.: "Photoreactivity of Vinyl Ether/Oxirane-Based Resin Systems"; <u>Journal of Applied Polymer Science</u> , Vol. 86, 314-326 (2002); Wiley Periodicals, Inc.	
	/	<b>TOAGOSEI CO. LTD.</b> : "Developing Monomers". "Oxetane"; Copyright 2000 American Chemical Society.	
	/	<b>HOU, JIAN</b> et al.: "Synthesis of a Star-Shaped Copolymer with a Hyperbranched Poly(3-methyl-3-oxetanemethanol) Core and Tetrahydrofuran Arms by One-Pot Copolymerization"; <u>Macromol. Rapid Commun.</u> 2002, 23, 456-459.	
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	/	<b>SUZUKI, HIROSHI</b> et al.: "Photo-cationic curable materials using cationic polymerizable monomers such as epoxides and vinyl ether derivatives"; <u>Polymer Preprints</u> 2001, 42(2), 733.	
	/	<b>KANO, SHIGEYOSHI</b> et al.: "Monomer-Isomerization Polymerization of 3-Methyl-3-(phthalimidomethyl)oxetane with Two Different Ring-Opening Courses"; <u>Macromolecules</u> 1999, 32, 2438-2448; 1999 American Chemical Society.	
	/	<b>JANSEN, JOHAN F.G.A.</b> et al.: "Effect of Dipole Moment on the Maximum Rate of Photoinitiated Acrylate Polymerizations"; <u>Macromolecules</u> 2002, 35, 7529-7531; 2002 American Chemical Society; Communications to the Editor.	

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	✓	MACHIDA, SHIGERU et al.: "The Highly Syn-Selective Michael Reaction Of Enamines With 2-(1-Alkenyl)-1,3-Dioxolan-2-Ylium Cations Generated From 2,2-Dimethoxyethyl 2-Alkenoates <i>In Situ</i> "; <u>Tetrahedron</u> Vol. 47, No. 23, pp. 3737-3752, 1991; 1991 Pergamon Press plc.	
	✓	MOTOI, MASATOSHI et al.: "Preparation of Polyoxetane-Polystyrene Composite Resins and Their Use as Polymeric Supports of Phase-Transfer Catalysts"; <u>Polymer Journal</u> , Vol. 21, No. 12, pp 987-1001 (1989).	
	✓	PATTISON, DEXTER B.: "Cyclic Ethers Made by Pyrolysis of Carbonate Esters"; <u>Orchem Laboratories</u> E.I. DuPont; January 17, 1957.	
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	✓	<b>KANOH, SHIGEYOSHI</b> et al.: "Cationic Monomer-Isomerization Polymerization of Oxetanes Having an Ester Substituent, to Give Poly(orthoester) or Polyether"; <u>Macromol. Chem. Phys.</u> 2002, 203, 511-521; Wiley-Vch.	
	✓	<b>KANOH, SHIGEYOSHI</b> et al.: "Double Isomerization of Oxetane Amides to Azetidine Esters with Ring Expansion and Contraction"; <u>J. Org. Chem.</u> 2000, 65, 2253-2256, 2000 American Chemical Society.	
	✓	<b>KUDO, HIROTO</b> et al.: "Synthesis of a Hetero Telechelic Hyperbranched Polyether. Anionic Ring-Opening Polymerization of 3-Ethyl-3-(hydroxymethyl)oxetane Using Potassium <i>tert</i> -Butoxide as an Initiator"; Short Communications; <u>Polym. J.</u> , Vol. 35, No. 1, 2003; pgs. 88-91.	
	✓	<b>UEYAMA, AKIHIKO</b> et al.: "Preparation of Polyoxetane Resins Having Polyoxirane Segments in the Pendant and Cross-Linking Chains and Uses as Polymeric Solvents for Alkali-Metal Ions"; <u>Polymer Journal</u> , Vol. 34, No. 12, pp 944-953 (2002).	
	✓	<b>SINGHA, NIKHIL K.</b> et al.: "Atom Transfer Radical Copolymerization (ATRCP) Of A Monomer Bearing An Oxetane Group"; <u>Polymer Preprints</u> 2002, 43(2), 165.	
	✓	<b>SASAKI, H.</b> et al.: "The Synthesis, Characterization, And Photoinitiated Cationic Polymerization Of Difunctional Oxetanes"; <u>J.M.S.-Pure Appl. Chem.</u> , A29(10), pp. 915-930 (1992).	
	✓	Publications by <u>Phillips</u> Concerning Oxetanes. (2)	

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